=> d his

(FILE 'HOME' ENTERED AT 09:32:54 ON 26 SEP 2001)

. 1	FILE	'CA' ENTERED AT 09:33:07 ON 26 SEP 2001 99 S (ABSORB? OR ADSORB? OR SPRAY? OR OVERSPRAY?) (P) (NONIONIC	αn
L1		33 5 (ABSORB: OR ADSORB: OR SERAT: OR OVERSERAT:) (F) (NONTONIC	OK
A			
L2		9 S L1 AND (BULK OR APPARENT OR TAMPED)(2W)DENSIT?	
L3		14 S (ABSORB? OR ADSORB? OR SPRAY? OR OVERSPRAY?) (10A) (NONIONI	C
OR			
L4		-12 S L3 NOT L2	
	FILE	'USPATFULL' ENTERED AT 09:53:54 ON 26 SEP 2001	
L5	*	119 S L3 AND (BULK OR APPARENT OR TAMPED) (2W) DENSIT?	
L6		37326 S (MIX?) (P) (PADDLE OR SCREW OR RIBBON)	
L7		27 S L5 AND L6	
L8	*	5 S L5 AND FROUDE	
L9		23 S L7 NOT L8	
		· · · · · · · · · · · · · · · · · · ·	

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=> s (absorb? or adsorb? or spray? or overspray?)(p)(nonionic or anionic) and
(coat? or dust? or postmix? or post mix? or postdos? or post dos? or post
add?)(p)(fine powder or zeolite# or silicate# or aluminosilicate#)
        290620 ABSORB?
        245739 ADSORB?
        181562 SPRAY?
           442 OVERSPRAY?
         55356 NONIONIC
         87391 ANIONIC
          8605 (ABSORB? OR ADSORB? OR SPRAY? OR OVERSPRAY?) (P) (NONIONIC OR
               ANIONIC)
        777373 COAT?
        96298 DUST?
            15 POSTMIX?
        132048 POST
       2102261 MIX?
           .64 POST MIX?
                  (POST(W)MIX?)
           848 POSTDOS?
        132048 POST
        688162 DOS?
           777 POST DOS?
                  (POST(W) DOS?)
        132048 POST
       2489061 ADD?
           127 POST ADD?
                  (POST(W)ADD?)
        205366 FINE
        364778 POWDER
          7097 FINE POWDER
                  (FINE (W) POWDER)
         83814 ZEOLITE#
        154406 SILICATE#
         32430 ALUMINOSILICATE#
         22319 (COAT? OR DUST? OR POSTMIX? OR POST MIX? OR POSTDOS? OR POST
               DOS? OR POST ADD?) (P) (FINE POWDER OR ZEOLITE# OR SILICATE# OR
               ALUMINOSILICATE#)
            99 (ABSORB? OR ADSORB? OR SPRAY? OR OVERSPRAY?) (P) (NONIONIC OR
L1
              ANIONIC) AND (COAT? OR DUST? OR POSTMIX? OR POST MIX? OR
POSTDOS
               ? OR POST DOS? OR POST ADD?) (P) (FINE POWDER OR ZEOLITE# OR
SILIC
               ATE# OR ALUMINOSILICATE#)
=> s 11 and (bulk or apparent or tamped) (2w) densit?
        206479 BULK
        226039 APPARENT
           310 TAMPED
        251491 DENSIT?
          2623 (BULK OR APPARENT OR TAMPED) (2W) DENSIT?
             9 L1 AND (BULK OR APPARENT OR TAMPED) (2W) DENSIT?
L2
=> d 1-9 12 ti
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ANSWER 1 OF 9 CA COPYRIGHT 2001 ACS

compositions in paper-based containers

High-bulk-density granular laundry detergent

- ANSWER 2 OF 9 CA COPYRIGHT 2001 ACS L2
- High-bulk-density granular laundry detergent ΤI compositions with good fluidity
- ANSWER 3 OF 9 CA COPYRIGHT 2001 ACS L2
- Nonionic surfactant-containing particles and manufacture of high ΤI bulk density powdered detergents by adding them
- ANSWER 4 OF 9 CA COPYRIGHT 2001 ACS
- High bulk density detergent compositions containing ΤÏ polycarboxylate in separate granules and its use
- L2ANSWER 5 OF 9 CA COPYRIGHT 2001 ACS
- TI Detergent compositions with high bulk density and their manufacture
- ANSWER 6 OF 9 CA COPYRIGHT 2001 ACS L2
- Process for increasing the bulk density of a granular TI detergent composition
- L2
- ANSWER 7 OF 9 CA COPYRIGHT 2001 ACS Manufacture of caking-resistant nonionic surfactant granule compositions ΤI with high bulk density and flowability
- ANSWER 8 OF 9 CA COPYRIGHT 2001 ACS L2.
- High bulk density granular detergent compositions ΤI containing carbonate builder
- ANSWER 9 OF 9 CA COPYRIGHT 2001 ACS L2
- Process for increasing the bulk density of spray-dried detergents with a reduced phosphate content

Kao Corp, Japan

PΑ

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ANSWER 3 OF 9 CA COPYRIGHT 2001 ACS
AN
     127:20020 CA
     Nonionic surfactant-containing particles and manufacture of high
ΤI
    bulk density powdered detergents by adding them
     Hashimoto, Shinichi; Inotsuka, Takashi; Fukutome, Shinichi; Abe, Seiji
IN
PA
     Lion Corp., Japan
     Jpn. Kokai Tokkyo Koho, 6 pp.
SO
     CODEN: JKXXAF
DT
     Patent -
     Japanese
LA
FAN.CNT 1
                                            APPLICATION NO.
     PATENT NO.
                      KIND
PΙ
     JP 09100498
                       A2
                             19970415
                                            JP 1995-279758
    ANSWER 6 OF 9 CA COPYRIGHT 2001 ACS
L2
ΑN
     121:303602 - CA
     Process for increasing the bulk density of a granular
ΤI
     detergent composition
     Van Dijk, Paul; Vega, Jose Luis; France, Paul Amaat Raymond G.
ΙN
PA
     Procter and Gamble Co., USA
     PCT Int. Appl., 39 pp.
SÓ
     CODEN: PIXXD2
DT
     Patent
     English
LΑ
FAN.CNT 1
                                           APPLICATION NO.
     PATENT NO.
                      KIND DATE
                                           WO 1993-US8151
                                                              19930830
                             19940317
     WO 9405761
                       A1
             AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN,
             MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, VN
         RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,
             BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
                       A1
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                                            EP 1993-922135
                                                              19930830
     EP 660873
     EP 660873
                       В1
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                                            AU 1993-51245
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     AU 677238
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                       С
                             19990112
     CA 2143628
                                                              19930830
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                       Т3
                             20010816
     ES 2157223
                                            CN 1993-118968
                                                              19930901
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                       Α
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                       В
                             20010131
     CN 1061369
                                                              19950228
                                            FI 1995-913
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                                                              19950228
                                            NO 1995-768
                             19950428
     NO 9500768
                       Α
PRAI EP 1992-870138
                       Α
                             19920901
     EP 1993-200460
                       Α
                             19930218
                             19930830
                       W
     WO 1993-US8151
     ANSWER 7 OF 9 CA COPYRIGHT 2001 ACS
L_2
     119:162902 CA
ΑN
     Manufacture of caking-resistant nonionic surfactant granule compositions
ΤI
     with high bulk density and flowability
     Yamashita, Hiroyuki; Kondo, Hiroyuki; Hatano, Koichi; Nakano, Katsunori;
IN
     Toyoda, Koji
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SO
     Jpn. Kokai Tokkyo Koho, 8 pp.
     CODEN: JKXXAF
DT
     Patent
     Japanese
LА
FAN.CNT 1
                                          APPLICATION NO.
     PATENT NO.
                     KIND DATE
                                                            DATE
                     ____
                     A2
                                           JP 1992-107460
     JP 05125400
                                                            19920427
                            19930521
PΙ
                            19910517
PRAI JP 1991-112929
     JP 1991-194268
                            19910802
     ANSWER 9 OF 9 CA COPYRIGHT 2001 ACS
     112:38748 CA
AN
     Process for increasing the bulk density of spray-dried
     detergents with a reduced phosphate content
     Jacobs, Jochen; Jahnke, Ulrich; Jung, Dieter; Loeffelmann, Rudolf; Adler,
IN
     Wilfried
     Henkel K.-G.a.A., Fed. Rep. Ger.
PΑ
     Eur. Pat. Appl., 11 pp.
SO
     CODEN: EPXXDW
DT
     Patent
LА
     German
FAN.CNT 1
     PATENT NO. KIND
                                           APPLICATION NO.
                            DATE
                                          , _____
     _____
                            _____
               A2
A3
B1
                                                            19890408
                                           EP 1989-106222
PI
     EP 337330
                            19891018
     EP 337330
                            19900411
     EP 337330
                           19960515
        R: AT, BE, CH, DE, ES, FR, IT, LI, NL
                                     DE 1988-3812530 19880415
     DE 3812530 A1
                           19891026
                                         AT 1989-106222
ES 1989-106222
   AT 138096 E 19960615
ES 2086308 T3 19960701
DK 8901823 A 19891016
JP 01311200 A2 19891215
US 5149455 A 19920922
                                                            19890408
                                                            19890408
                                         DK 1989-1823
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                                          JP 1989-96206
                                                            19890414
                                         US 1991-644469
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PRAI DE 1988-3812530 19880415
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19890410

US 1989-335904

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ANSWER 3 OF 9 CA COPYRIGHT 2001 ACS
     127:20020 CA
AN
     Nonionic surfactant-containing particles and manufacture of high
ΤI
     bulk density powdered detergents by adding them
     Hashimoto, Shinichi; Inotsuka, Takashi; Fukutome, Shinichi; Abe, Seiji
IN.
PA
     Lion Corp., Japan
     Jpn. Kokai Tokkyo Koho, 6 pp.
SO
     CODEN: JKXXAF
     Patent:
DΤ
     Japanese
LA
     ICM C11D011-00
     ICS C11D010-02; C11D001-66; C11D003-10; C11D003-12; C11D001-83
CC
     46-6 (Surface Active Agents and Detergents)
FAN.CNT 1
                                            APPLICATION NO.
    PATENT NO.
                      KIND
                            DATE
                                                             DATE
                            19970415
                                            JP 1995-279758
                                                             19951003
     JP 09100498
                      A2
PΙ
     Inorg. builders comprising zeolite and Na2CO3 are mixed in rolling
     granulizer drum and sprayed by 7-20% nonionic
     surfactants at spraying d. (D) .ltoreq.3 g/cm2-min and Froude
     no. F 0.1-0.8; F = .pi.Dn/(gD/2)1/2 (D = diam. of drum; n = rps; g =
     acceleration of gravity) to give title particles contg. reduced amts. of
     large particles, which show improved fluidity. The caking-resistant
     detergents are manufd. by blending the particles with compns. contg.
     anionic surfactants, water-sol. inorg. builders, etc., so that the
     contents of the nonionic surfactants are 0.5-5% vs. the total
     compns. Thus, 10/77 mixt. of zeolite and Na2CO3 was sprayed by
     polyethylene glycol dodecyl ether at D = 1.1 \text{ g/cm}2\text{-min} and F = 0.7 \text{ to}
give
     title particles, 5% of which was blended with a compn. contg. Na C14-18
     .alpha.-sulfofatty acid Me ester salt, Na C12-16 .alpha.-olefinsulfonate,
     Na C16-18 fatty acid salt, zeolite, and other additives to give title
     detergent contg. 4.5% particle with diam. .ltoreq.52 .mu.m and good
caking
     resistance.
     nonionic surfactant addn powd detergent; builder particle
     nonionic surfactant spraying; high bulk
     density detergent nonionic surfactant; fluidity improved
     nonionic surfactant coated particle; caking resistance detergent
     nonionic surfactant; Froude no regulation spraying
     surfactant
     Zeolites (synthetic), uses
IT
     RL: TEM (Technical or engineered material use); USES (Uses)
        (builders comprising zeolite and sodium carbonate
        coated by nonionic surfactants for high bulk d. detergents)
ΙT
     Fatty acids, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (ethoxylated, ethoxylated, nonionic surfactants; builders comprising
        zeolite and sodium carbonate coated by nonionic
        surfactants for high bulk d. detergents)
ΙŤ
     Detergents
     Nonionic surfactants
        (manuf. of high bulk d. powd. detergents with caking resistance by
        adding nonionic surfactant-contg. particles)
     497-19-8, Sodium carbonate, uses
IT
     RL: TEM (Technical or engineered material use); USES (Uses)
        (builders comprising zeolite and sodium carbonate
```

coated by nonionic surfactants for high bulk d. detergents)

9002-92-0, Polyethylene glycol dodecyl ether 9004-74-4D, Polyethylene glycol methyl ether, fatty acid ester
RL: TEM (Technical or engineered material use); USES (Uses)

(nonionic surfactants; builders comprising zeolite and sodium carbonate coated by nonionic surfactants for high bulk d. detergents)

```
ANSWER 7 OF 9 CA COPYRIGHT 2001 ACS
L2
     119:162902 CA
ΑN
     Manufacture of caking-resistant nonionic surfactant granule compositions
Τİ
     with high bulk density and flowability
     Yamashita, Hiroyuki; Kondo, Hiroyuki; Hatano, Koichi; Nakano, Katsunori;
IN
     Toyoda, Koji
PΑ
     Kao Corp, Japan
     Jpn. Kokai Tokkyo Koho, 8 pp.
SO
     CODEN: JKXXAF
DT
     Patent
     Japanese
LΑ
     ICM C11D017-06
İC
     ICS C11D011-00
     46-3 (Surface Active Agents and Detergents)
FAN.CNT 1
                                            APPLICATION NO.
                                                             DATE
                      KIND
                            DATE
     PATENT NO.
                                                             19920427
                       A2
                            19930521
                                            JP 1992-107460
     JP 05125400
PRAI JP 1991-112929
                            19910517
                            19910802
     JP 1991-194268
     The title compns. (bulk d. 0.6-1.2 \text{ g/mL}) are prepd. from 15-70 \text{ parts oil-}
AB
     absorbent porous carrier (pore vol. 100-600 cm3/100 g, sp. surface
     area 20-700 m2/g, oil absorption >100 mL/100 g) and 30-85 parts
     nonionic surfactants in a stirred vessel by forming a powder
     adhesion layer on the vessel wall forming a clearance from the stirring
     blades, granulating such layer into high-d. granules by the stirrer
blade,
     and coating the granules with fine powder.
     Granules were prepd. from 65 parts polyoxyethylene dodecyl ether and 35
     parts amorphous silica, covered with 2 parts amorphous silica.
     caking resistant nonionic surfactant granule; silica nonionic surfactant
ST
     granule
IT
     Surfactants
        (nonionic, granules of, manuf. of, caking-resistant)
     546-93-0, Magnesium carbonate 7631-86-9, Silica, uses
IT.
     RL: USES (Uses)
        (in caking-resistant nonionic surfactant manuf.)
     9002-92-0, Polyoxyethylene dodecyl ether.
IT
     RL: TEM (Technical or engineered material use); USES (Uses)
        (surfactants, granules, manuf. of caking-resistant)
```

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ANSWER 8 OF 12 CA COPYRIGHT 2001 ACS
T.4
     99:214544 CA
AN
     Softener-containing granular detergent for textiles
TI
     Allen, Edwin; Dillarstone, Alan; Reul, Joseph Andre
TN
PA
     Colgate-Palmolive Co., USA
     Ger. Offen., 39 pp.
so
     CODEN: GWXXBX
     Patent
DT
     German
LΑ
FAN.CNT 2
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                        Α
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PRAI US 1982-366712
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     US 1982-366713
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> d 1-5 18 ti

- L8 ANSWER 1 OF 5 USPATFULL
- TI Method for producing nonionic detergent granules
- L8 ANSWER 2 OF 5 USPATFULL
- TI Method for producing detergent particles having high bulk density
- L8 ANSWER 3 OF 5 USPATFULL
- TI Method for producing nonionic detergent granules
- L8 ANSWER 4 OF 5 USPATFULL
- TI Process for producing nonionic detergent granules
- L8 ANSWER 5 OF 5 USPATFULL
- TI Process for increasing the density of spray dried, phosphate-reduced detergents

> d 1-12 14 ti

- L4 ANSWER 1 OF 12 CA COPYRIGHT 2001 ACS
- TI Manufacture of granular nonionic laundry detergent compositions having excellent solubility and cleaning power at a high temperature
- L4 ANSWER 2 OF 12 CA COPYRIGHT 2001 ACS
- TI Coated polymer molding products with improved discoloration of coatings
- L4 ANSWER 3 OF 12 CA COPYRIGHT 2001 ACS
- TI Deodorizing and antimicrobial coatings and coating process and compositions therefor
- L4 ANSWER 4 OF 12 CA COPYRIGHT 2001 ACS
- TI Manufacture of compacted, granular sodium silicates for detergents
- L4 ANSWER 5 OF 12 CA COPYRIGHT 2001 ACS
- TI Adsorption of anionic surfactants on granules for use in detergents
- L4 ANSWER 6 OF 12 CA COPYRIGHT 2001 ACS
- TI Manufacture of metal-coated inorganic powders
- L4 ANSWER 7 OF 12 CA COPYRIGHT 2001 ACS
- TI Self-cleaning coatings
- L4 ANSWER 8 OF 12 CA COPYRIGHT 2001 ACS
- TI Softener-containing granular detergent for textiles
- L4 ANSWER 9 OF 12 CA COPYRIGHT 2001 ACS
- TI Coating compositions for insulated wires
- L4 ANSWER 10 OF 12 CA COPYRIGHT 2001 ACS
- TI Pourable washing compositions containing aluminosilicates and nonionics
- L4 ANSWER 11 OF 12 CA COPYRIGHT 2001 ACS
- TI Dust preventing agent
- L4 ANSWER 12 OF 12 CA COPYRIGHT 2001 ACS
- TI Adsorption of surface-active compounds and polymers by titanium dioxide modified with inorganic compounds